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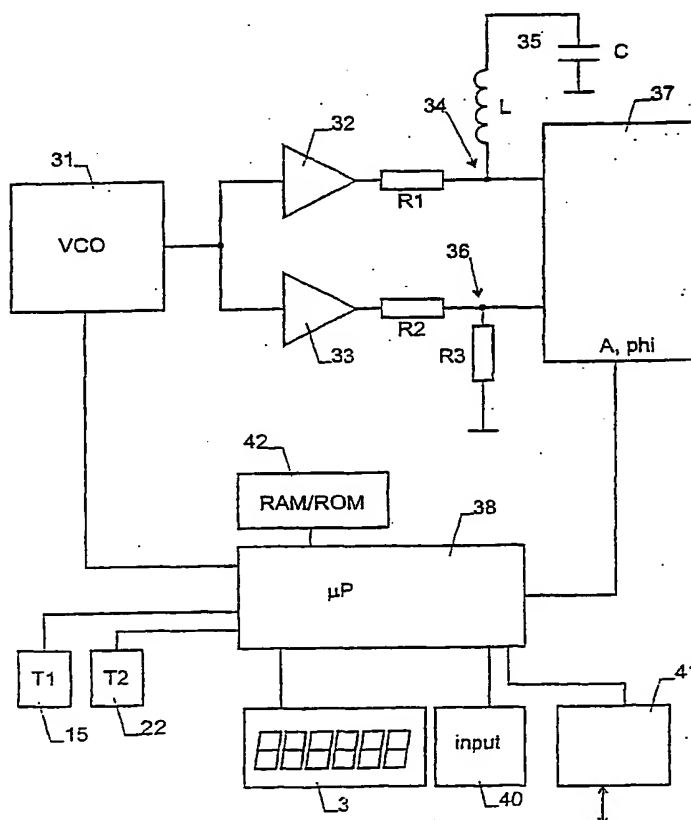
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- (71) Applicant (for all designated States except US): PEN-DRAGON MEDICAL LTD. [CH/CH]; Hagenholzstrasse 81 a, CH-8050 Zürich (CH).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): CADUFF, Andreas [CH/CH]; Klingenstrasse 21, CH-8005 Zürich (CH). DEWARRAT, Rodolphe [CH/CH]; Chlupfwisstrasse 29, CH-8165 Oberweningen (CH).
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(54) Title: TECHNIQUES FOR DETERMINING GLUCOSE LEVELS



(57) Abstract: A device (100) for measuring the glucose level in a living body comprises an electrode arrangement (5, 6) to be applied to a surface of the body. The glucose level is derived from the response of the electrode arrangement (5, 6) to an electrical signal. Two temperature sensors (15, 22) are arranged at different positions within the device (100), the signals of which are used during calibration and measurements to improve the accuracy of the device. A further increase of accuracy is achieved by using an interpolation method during calibration. In addition, techniques for compensating shifts caused by a displacement of the device are applied. The device can also be used for a prediction of hyper- or hypoglycemia based on limits for the higher order derivatives of the glucose level.



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